

ADD + SUBTRACT FRACTIONS

NAME: _____

DIV: _____

DATE: _____

1. Add and simplify.

a) $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$

$\frac{4}{5}$

b) $\frac{4}{9} + \frac{1}{9}$ _____

c) $\frac{3}{7} + \frac{4}{7}$

d) $\frac{1}{8} + \frac{5}{8}$ _____

e) $\frac{3}{10} + \frac{3}{10}$

f) $\frac{5}{16} + \frac{7}{16}$ _____

g) $\frac{5}{12} + \frac{11}{12}$

h) $\frac{13}{20} + \frac{17}{20}$ _____

i) $\frac{9}{11} + \frac{6}{11} + \frac{7}{11}$

j) $\frac{7}{13} + \frac{2}{13} + \frac{4}{13}$ _____

k) $\frac{13}{18} + \frac{7}{18} + \frac{4}{18}$

l) $\frac{37}{60} + \frac{29}{60} + \frac{9}{60}$ _____

2. Subtract and simplify.

a) $\frac{3}{7} - \frac{1}{7}$

$\frac{2}{7}$

b) $\frac{7}{9} - \frac{4}{9}$ _____

c) $\frac{7}{10} - \frac{3}{10}$

d) $\frac{13}{20} - \frac{3}{20}$ _____

e) $\frac{25}{36} - \frac{13}{36}$

f) $\frac{19}{24} - \frac{7}{24}$ _____

g) $\frac{23}{48} - \frac{11}{48}$

h) $\frac{17}{18} - \frac{5}{18}$ _____

i) $\frac{11}{12} - \frac{5}{12} - \frac{1}{12}$

j) $\frac{9}{10} - \frac{3}{10} - \frac{1}{10}$ _____

k) $\frac{9}{13} - \frac{5}{13} - \frac{4}{13}$

l) $\frac{8}{9} - \frac{4}{9} - \frac{1}{9}$ _____

3. Solve. Leave answer in mixed number form. Show Your Work. Reduce where possible.

a) $\frac{1}{2} \times \frac{1}{2} + \frac{1}{4}$

$\frac{3}{4}$

b) $\frac{1}{3} + \frac{3}{4}$

$\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$

Common Denominator

c) $\frac{5}{6} - \frac{4}{9}$

d) $\frac{7}{8} - \frac{5}{12}$

e) $\frac{7}{18} + \frac{5}{27}$

f) $\frac{9}{40} + \frac{5}{16}$

g) $4 - \frac{2}{3}$

h) $\frac{5}{36} - \frac{5}{48}$

4. Solve. Leave answer in mixed number form. Show Your Work. Reduce where possible

a) $2\frac{1}{3} + 1\frac{1}{2} = \frac{2 \times 7}{3} + \frac{3 \times 3}{2} = \frac{14+9}{6} = \frac{23}{6} = 3\frac{5}{6}$

b) $4\frac{3}{4} + 1\frac{1}{2}$

$2+1=3$
 $\frac{1}{3} + \frac{1}{2} = \frac{2}{6} + \frac{3}{6} = \frac{5}{6}$

$3\frac{5}{6}$

c) $5 - 3\frac{5}{8}$

d) $5\frac{3}{8} - 4\frac{1}{4}$

e) $5\frac{9}{10} + 2\frac{8}{15}$

f) $3\frac{25}{36} + 2\frac{11}{16}$

g) $4\frac{2}{9} - 2\frac{13}{18}$

h) $12\frac{5}{16} - 9\frac{7}{12}$

5. Three drill bits are marked $\frac{5}{8}$, $\frac{9}{16}$ and $\frac{19}{32}$. Which drill bit is the largest? Smallest?
6. A 12 pound 4 ounce turkey was cooked for dinner. After cooking, the turkey weighed only 9 pounds 12 ounces. Express the total weight lost during cooking as a mixed number. (16 ounces = 1 pound)
7. A jogger ran for 1 hr 36 min on day and 1 hr 12 min the next day. Express the total distance ran during the two days as a mixed number.
8. A business is owned by three people. The first person owns $\frac{5}{12}$ of the business, and the second person owns $\frac{1}{3}$ of the business. What portion of the business does the third person own?
9. A jogger ran for 1 hr 36 min on day and 1 hr 12 min the next day. Express the total distance ran during the two days as a mixed number.
10. A recipe calls for $\frac{1}{4}$ teaspoon of cinnamon, $\frac{5}{8}$ teaspoon of salt, $1\frac{3}{4}$ teaspoon of flour, and $1\frac{1}{2}$ teaspoon of sugar. What is the total amount of ingredients used in teaspoons?
11. An estate was left to four children. The first child received $\frac{1}{4}$ of the estate, the second child received $\frac{1}{6}$ of the estate, the third child received $\frac{3}{8}$ of the estate. How much of the estate did the fourth child receive?
12. Express 2 hours 12 minutes and 40 seconds as a mixed number in hours.